

## NEW DIRECTIONS FOR HIGHER BORANES

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Research over the past decades has revealed new applications for metal boranes including their implementation as energy materials and as neutron capture agents in cancer treatment. The energy applications involve the use of boron-hydrogen compounds as ion-conductors for batteries, as hydrogen storage materials, or even rocket fuels. [1] The state-of-the-art in these areas will be discussed along with the favourable and unfavourable properties of higher boranes. New photochemical and electrochemical properties and applications will also be discussed in regards to novel metal boranes and their complexes.

### References

[1] Hansen, B.R.S., Paskevicius, M., Li, H.-W., Akiba, E., Jensen, T.R. (2016) 'Metal boranes: Progress and applications', *Coordination Chemistry Reviews*, 10.1016/j.ccr.2015.12.003



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